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SEP 17 '13
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BUREAU OF PLANT INDUSTRY,
OFFICE OF DRY LAND AGRICULTURE.

Washington, D. C., Sept. 13/13.

REPORT FOR WEEK ENDING SEPTEMBER 6, 1913:

Akron: The corn on rotations, the millet sown for seed, buckwheat and cowpeas were harvested during the week. There is very little corn on any of the rotation plats. The spring plowed were the last to fire. Grain sorghums and cane are drying rapidly and will be harvested soon. Maximum temperature for week 92, minimum 52, precipitation .17 in.

Amarillo: The afternoons for the most part have been showery and cloudy. Some fall plowing has been done on the plats preparatory to sowing wheat. Maximum temperature for week 93, minimum 57, precipitation .28 in.

Archer: The winter wheat was threshed September 6th. The maximum yield was about 11 bushels, and the minimum about 6 bushels. Taken as a whole the yield was very uniform. There has been rain every day, excepting one, and evaporation has been very low. The soil is absorbing the excess of moisture very slowly, because of the compact subsoil. The weather has been cool, the maximum temperature being 82, minimum 50, precipitation 1.48 in.

Edgeley: A heavy shower in which 2.3 in. of rain fell in about three-quarters of an hour occurred last Wednesday evening and there have been light local showers almost daily since, so that no threshing was done the latter part of the week in this section. The fall plowing of the plats was begun Wednesday. The ground was very hard and dry then, but the ground has been too soft since to do any work on the plats. Maximum temperature 92, minimum 48, precipitation 2.5 in.

Garden City: The weather this week has continued warm and dry. The broom corn on the seed-bed plats was mowed during the week. The yield of seed was practically nothing as the broom corn has been killed by the drought. On account of the drought and the very light yield of seed on any of the dry land sorghum plats, all the kafir, cane and milo will be cut for forage at the beginning of the coming week.

Hays: No change in weather conditions except that there has been less wind the last three days, but it is still dry and warm, the maximum for the week being 105 and the minimum 65. Precipitation, a very light trace.

Hettinger: Corn cutting was completed on Friday and husking commenced. Maximum temperature 96, minimum 48. No precipitation.

North Platte: All but a few of the fall plowed plats have been plowed. All plats except those that produced a crop on previous summer fallow plowed up very hard and chunky. The weather since the field meeting has been very hot and dry. Maximum temperature since August 19, 105, minimum 52. Precipitation August 19, 67 in., August 22, .21 in.

Scottsbluff: Most of the corn is matured, so that harvesting will commence next week. As was the case last year, there is considerable smut, estimated as over 25%. Desirable ears for seed have been selected and stored for the coming season. Fall seeding of rye is up and doing well. Maximum temperature 90, minimum 55, precipitation .46 in.

Tucumcari: The weather still remains dry with not much relief from the drought situation. The corn in the rotation plats were harvested this week. No grain of consequence will be secured from the plats cut. Part of the dwarf milo plats have been harvested and the yield will be comparatively light on account of damage done by the birds to the early planting. The Groit and New Era cowpeas were harvested on Thursday and about half a crop will be secured. Maximum temperature, 95, minimum 57, precipitation .16 in

Williston: Threshing has been completed and the yields were fair. Corn is maturing rapidly and if frost holds off a little longer a good crop of ears is assured. August received precipitation 4.19" above normal and there is now a deficit of only .04 in. from the beginning of the year. The soil is in excellent shape for fall plowing.

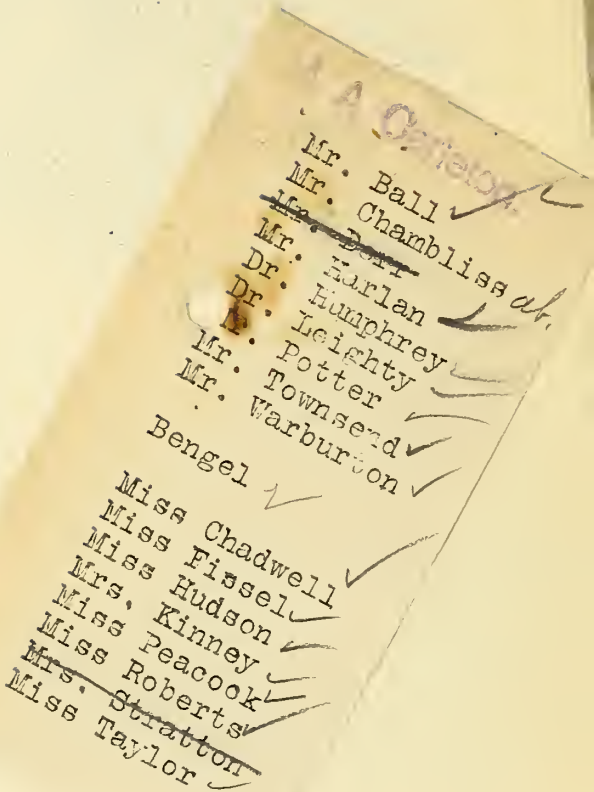
General Notes: It is noted that a large percentage of the vouchers being sent in by the field men to secure reimbursement for travel performed in the field are frequently wrong in computing the number of days per diem allowance. Attention is therefore called to the following paragraph from the Fiscal Regulations of the Department:

> "No officer or employee shall receive a per diem allowance for a day on which he arrives at his official station at or before 7 A.M., or for a day on which he leaves his official station at or after 6 P.M. and spends the night in transit; but a full days allowance will be made for days on which an officer or employee arrives at his official station after 7 a.m. and for days on which an officer or employee leaves his official station before 6 p.m."

In other words, if a man left his official station at 5 p.m. one day and returned to his official station the following day at 8 a.m., he is entitled to 2 full day's per diem allowance under the fiscal regulations. In this connection, if there are any field men who have not a copy of the Fiscal Regulations, effective March 1, 1913, for their information, they should communicate with this office.

General notes Continued:

This office has received instructions from the Disbursing Office that vouchers covering travel must always be accompanied by Itinerary Reports initialed by the person performing the travel, and that where vouchers are not accompanied by such reports, they will be referred back to the field men for same. In order to expediate payment of their vouchers and to avoid delay in having vouchers sent back and forth through the mail, the field men are advised to see that their travel vouchers are invariably accompanied by Itinerary Reports.


Mr. Ball
Mr. Chambliss
Mr. Hurlan
Dr. Humphrey
Dr. Leighty
Mr. Potter
Mr. Townsend
Mr. Warburton
Bengel
Miss Chadwell
Miss Fissel
Miss Hudson
Mrs. Kinney
Miss Peacook
Miss Roberts
Miss Taylor

BUREAU OF PLANT INDUSTRY,
OFFICE OF DRY LAND AGRICULTURE

Washington, D C.,
September 20, 1913.

REPORT FOR WEEK ENDING SEPTEMBER 13, 1913:

Akron: Some of the fallow plats were replowed to prevent the weeds from seeding which had been missed by the harrow and disc. It is still very dry and cane, corn and potatoes are drying up rapidly. Maximum temperature for the week 92, minimum 42, precipitation .43".

Amarillo: There was considerable rain during the week, the main precipitation coming on Wednesday and Thursday nights. There was some runoff but the ground must be wet to a considerable depth as the plats were too wet to plow on the 13th. The indications are that some plant growth will take place at this late date, especially among the kafirs. Maximum temperature 83, minimum 67, precipitation 2.6 in.

Archer: Threshing has been in progress during the week. The maximum yield of wheat was 12.2 bu., oats 20.1 bu., and barley 7 bu., while the minimum was 6 bu., 5 bu., and 5.9 bu. respective. The yields as a whole were very uniform except on plats where rabbits, birds and gophers destroyed part of it, which would also indicate that the soil is uniform. The weather this week has been cool, with more wind than usual and very little rain. Frost occurred on the night of the 12th but did no damage. Maximum temperature for the week 84.5, minimum 38, precipitation .02 in.

Bellefourche: The corn has been husked and cut. The yield of shelled corn varied from 3.6 bu. per acre on Rotation 2 to 23.6 bu. per acre on the fallow plat. The average yield was 8.6 bu. It has been eleven weeks since there has been a rain large enough to do any good. The precipitation for August was .26 in. and so far there has been .13 in. for September.

Dalhart: The weather continues cool and dry and crops are ripening rapidly but no grain yields will be secured. The pit sile dug during the past week is attracting considerable attention among local farmers. There will be ten to fifteen put down in this vicinity this fall. Maximum temperature for the week 92, minimum 39.

Dickinson: The first killing frost at Dickinson occurred on the night of 10-11th of the month. Corn and all tender vegetable growth was affected. A couple of light showers occurred during the past week but neither was enough to do much good. The minimum temperature for the week was 28.

Edgeley: Local showers prevailed throughout the most of this section during the first part of the week. Some ears on the corn are maturing and will be harvested this week. Maximum temperature for the week 85, minimum 37, precipitation .o5 in.

Garden City: The weather this week turned quite cool. The rain on the 10th moistened the soil enough to insure the germination of the seed on the winter rye and winter wheat plats, which were seeded on the 12th and 13th. Doctor E. C. Miller, who has been conducting transpiration experiments at the station, returned to the college He expects to return next year and complete the work of testing the drought resistance of different plants begun this year.

Hays: The first few days of the week were hot and dry as reported heretofore for the past several weeks. The last few days have been much cooler. Have had much cloudiness and threatening weather accompanied with small showers of rain on the 9th, 10th, and 11th amounting to .33 in. in all. The cloudiness has now disappeared and it looks as if we are not to get any more rain for awhile. The amount of rain which fell is so small and the soil was so thoroughly dried out that it has helped conditions very little.

Hettinger: The yields of corn are fairly good and are going to give a very satisfactory average. The first frost of the season occurred on Wednesday morning when the temperature dropped to 30, but this was not very general and did very little damage because practically everything, garden stuff included, is well advanced. Maximum temperature for the week, 88. No precipitation.

Huntley: Winter wheat and rye have been seeded and the corn is in the shock. A good percentage of the corn is well filled and seed for next year has been selected. Maximum temperature 92, minimum, 30, precipitation .05 in.

Judith Basin: The 25 acre field of Kharkov winter wheat which was threshed during the first part of August yielded 41 bus. per acre. The yields of grain at the station for this season are as follows: Winter wheat 30 to 45 bus. per acre, spring wheat 20 to 30 bus., oats, 60 to 85 bus., barley, 50 to 60 bus. The increase yields on fallow over continuous cropped plats are very light. Precipitation for August .41 in.

Mandan: Material arrived:- One car plaster, one car cement. Status of the several buildings is as follows:- Barn and Machine Shed, Bunk House, and Mess House are completed. Office:- Interior finishing nearing completion. First Cottage Interior finishing about half completed. 2nd Cottage:-Partly plastered. Supt's Residence:- Partly plastered. Seed House:- Foundation completed and part of the basement floor laid. Greenhouse:-Part of the foundation walls put in. The weather has been fine for work and as yet there has been no frost Precipitation .24 inch. Backsetting of the field south of the barn has been continued. Large quantities of melons are being harvested from out melon patch.

Scottsbluff: All the corn has been cut, winter wheat planted and some fall plowing done. The soil carries very little moisture and unless we have some rain wheat on disced corn and fall plowing will have a hard time. Maximum temperature 82, minimum 46.

Tucumcari: The week has been cool and cloudy. Good rains or showers occurred in various parts of the county during the week, but were very light near Tucumcari and at the station. An 8 x 16 ft silo was received from the Indiana Silo Company of Kansas City, Mo , the first of the week and has been installed and will be filled the coming week. Maximum temperature 89, minimum 47, precipitation , .02 in.

Williston: The light frost of the 12th did not affect the corn which will soon mature. Beans were slightly frosted. Threshing is in full blast and some very good yields are being reported. Maximum temperature for the week 87, minimum 32, precipitation T.

General Note: Now that the time is approaching for the field men to report in to Washington, it is requested that this office be notified sufficiently in advance the dates when the men wish to leave their respective stations, so as to allow proper time in which to have their letters of authority prepared to cover necessary travel and expenses and to forward each man transportation requests.

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CEREAL INVESTIGATIONS
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BUREAU OF PLANT INDUSTRY,
OFFICE OF DRY LAND AGRICULTURE.

Washington, D. C. Sept. 27, 1913.

REPORT FOR WEEK ENDING SEPTEMBER 20, 1913:

Akron: The corn varieties were harvested during the week. No attempt was made to get comparative yields from the different varieties as there were only a few mature ears in the field and all of it was burning badly. The cane planted for feed was harvested as it was also burning badly. It still continues dry with only .10 in. precipitation for the week. Maximum temperature 87, minimum 32.

Amarillo: Cool weather prevailed throughout the week. Fall plowing is almost completed. All plats plowed before the recent tains were harrowed and the ground is now in excellent condition for seeding winter grains. Grain sorghums not het harvested will not be benefitted to any great entent by the late rains. Maximum temperature for week 83, minimum 43, precipitation .44 in.

Archer: Threshing was finished on the 20th. Taken as a whole the yields were very uniform and were as follows: Winter wheat, maximum 11 bu., minimum 8.58 bu.; Spring Wheat, maximum 16.7 bu., minimum 4.7 bu.; Oats, maximum 20 bu., minimum 5 bu.; Barley, maximum 10.7 bu., minimum 6.3 bu.; Flax, maximum 7.4 bu., minimum 5 bu.; and millet, maximum 23.2 bu., minimum 6.3 bu. A heavy frost occurred on the 19th and killed the corn, sorghums, and other late crops. About two more weeks of good weather would probably have matured the corn on the rotation plats, but it was very smutty, so would have been of but little value for seed. Maximum temperature for week 82, minimum 29.5, precipitation .58 in.

Bellefourche: Most of the week was too wet for field work. Nearly two inches of rain fell on Monday and Tuesday, and practically all of it went into the soil, there being very little run-off. The first frost occurred on Sept. 20th. Maximum temperature for week 80, minimum 33, precipitation 1.94 in.

Dalhart: All fall plowing has been finished but the soil has been left in a very rough condition and it is doubtful if any fall seeding can be done until it rains. Crops are ripening fast and it is hoped that they can all be harvested within the next ten days. The weather continues cool and dry. Maximum temperature 82, minimum 39, precipitation .17 in.

Dickinson: The first killing frost occurred on the night of the 10th. Corn and all tender vegetable growth was affected. The first Annual Industrial Exposition of Stark Co. will be held in Dickinson on the 24-6 of this month. Maximum temperature for week 79, minimum 28, precipitation .21 in.

Edgeley: The past week has been quite cool with considerable wind during the day. All of the corn on the station was harvested during the week, a considerable portion of it being matured. The station flax was also harvested. Maximum temperature 82, minimum 35, precipitation .05 in.

Garden City: The weather here this week has continued quite cool. The rye and wheat that was seeded the latter part of last week is coming up in excellent shape. Although there were innumerable grasshoppers here this summer there are very few left this fall and practically none are depositing eggs. Maximum temperature 80, minimum 40, precipitation .84 in.

Hays: The weather during the week has been much cooler than usual. The first few days were cloudy and damp. The rain fell during the night of the 16th and forenoon of the 17th. It was a gentle, slow and easy rain and all went into the ground, none being lost by runoff. Maximum temperature for the week 78, minimum 35, precipitation 1.95 in.

Huntley: The winter wheat and rye have germinated during the past week due to light rain. The fall plowing is very dry and unless there is more precipitation the young plants may die. Much contrast has been noted in this locality between winter wheat on continuous cropping and fallow, that on continuous cropping yielding between 15 and 20 bu. while that on fallow between 35 and 50 bu. Corn in this vicinity, both under irrigated and dry land conditions, has matured quite well. The first killing frost occurred on the night of the 19th. Maximum temperature 83, minimum 29, precipitation .18 in.

Mandan: The condition of the buildings is as follows:- Office: interior work nearing completion. 1st. Cottage: Floor partly laid, some painting done and the larger part of the interior finishing has been completed. 2nd Cottage: No progress. Supt's Residence: Plastering finished on second floor and partly plastered on first. Other buildings: No progress.

Backsetting of the breaking is being continued.

On the 16th a trip was taken into the woods and three bushels of wild grapes were gathered for planting purposes.

On the 17th Messrs. Peterson and Pfaender visited New Salem, a progressive little town about 30 miles west of Mandan, to see several successful home-orchards and inspect the work of several amateur horticulturists in that town.

On the 19th all melons, squash and pumpkins were gathers in anticipation of a frost.

Precipitation .02 inch

Minimum temperature 34 early A.M. of the 17th, that morning there was also the first light frost..

Scottsbluff: The week has been cold and blustering. The first frost occurred on the 20th. All harvesting and fall plowing is done. Winter wheat seeded on fallow and green manured plats resulted in a good stand, but that on fall plowing and disked corn shows poor promise at this date. Maximum temperature 88, minimum 31, precipitation .42 in.

Tucumcari: The fore part of the week was quite cool and a little frost was reported in a few isolated and exposed places. The 8 by 16 ft. silo was filled during the middle of the week with kafir and June corn. No winter wheat as yet been planted on account of the soil being too dry for germination. Maximum temperature 92, minimum 39, precipitation .17 in.

Williston: The week has been very cool with two frosts. The corn matured however and will be cut this week. Very high winds have prevailed and evaporation has been relatively high. Maximum temperature for week 81, minimum 25, precipitation .03 in.

General Notes: As the season's work in the field is about completed and there would seem to be no further need in issuing the weekly news letter from this office containing the crop results, the field men are advised that may discontinue making their weekly reports.

A blank form was sent to each field man under date of Sept. 24, to be used in making application for annual leave while enroute on their trip in to Washington this year. For the information of such men who may desire to take such leave of absence enroute, we beg to emphasize the necessity of filling in this blank form and forwarding same to Washington at the same time they are giving their dates and points of departure to be used by this office in having letters of authority issued. It will be impossible for men to secure leave of absence unless this signed form accompanies official request for letter of authority made by this office to cover their travel in to Washington. Of course, when stop-overs are desired on official business, it will only be necessary to advise this office of places and dates where such stop-overs are desired.

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